

CLAIMS

1. A resin injection molded article comprising at least a two-dimensional reinforcing core material formed into a non-planar shape, a resin surface layer covering the surface of said core material, and a resin-made structural member formed integrally with said resin surface layer and protruding from the resin surface layer, wherein said resin surface layer and said structural member are integrally molded by injection molding.

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2. A resin injection molded article according to claim 1, wherein said two-dimensional reinforcing core material is a fiber material such as a woven or knitted fabric, or such a fiber material impregnated with a resin.

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3. A resin injection molded article according to claim 2, wherein said fiber material is selected from the group consisting of carbon fibers, glass fibers and aramid fibers.

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4. A resin injection molded article according to claim 2, wherein said fiber material is selected from among synthetic fibers such as nylon or polyester and natural fibers such as hemp or cotton.

5. A resin injection molded article according to claim 1, wherein said fiber material comprises metal fibers.

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6. A resin injection molded article according to claim 1, wherein said fiber material is a fiber material impregnated with a thermoplastic resin.

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7. A resin injection molded article according to claim 6, wherein said thermoplastic resin is an acrylic resin, polyamide resin, polyester resin, polypropylene resin, ABS resin, polycarbonate resin, polypropylene-ethylene resin or a modification or blend of these resins.

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8. A resin injection molded article according to claim 6, wherein said resin surface layer and said fiber

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material-impregnating resin are composed of the same material.

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9. A resin injection molded article according to any one of claims 1 to 8, wherein at least one part of said resin surface layer is a transparent resin layer.

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10. A resin injection molded article according to claim 9, wherein said two-dimensional reinforcing core material is provided with a design such as a picture, a drawing, characters, a pattern or the like, and the transparent resin layer lies over it.

11. A resin injection molded article according to any one of claims 1 to 8 and 10, which is an electronic device casing or a part thereof.

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12. A resin injection molded article according to claim 9, which is an electronic device casing or a part thereof.

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13. A resin injection molded article according to claim 11, which is a portable electronic device casing or a part thereof.

14. A resin injection molded article according to claim 12, which is a portable electronic device casing or a part thereof.

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15. A resin injection molded article comprising at least a two-dimensional decorative core material, a resin surface layer covering the surface of said core material, and a resin-made structural member formed integrally with said resin surface layer and protruding from the resin surface layer, wherein at least a part of the resin surface layer covering the design of said core material is transparent, and said resin surface layer and said structural member are integrally molded by injection molding.

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16. A resin injection molded article according to claim 15, wherein said two-dimensional core material is a film, sheet or net made of paper, plastic, metal, fiber product or the like, or a laminate thereof.

17. A resin injection molded article according to

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claim 15 or 16, wherein said two-dimensional core material is provided with a design such as a picture, a drawing, characters, a pattern or the like.

Add New
Claims
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